

## AMENDMENT

### **In the Claims:**

Please withdraw without prejudice claims 53-55, and 62 as drawn to non-elected invention.

Please amend claims 57, 58, 63 and 97 so that the text of the amended claims read as shown in the respective claims text.

Please add new claims 98-100 as shown in the list below.

A clean copy of the complete list of claims is attached.

53. (Withdrawn) A liquid-crystalline multimolecular aggregate comprising a plurality of amphiphilic molecules dispersed in an aqueous solution, said amphiphilic molecules comprising a hydrophilic component having at least a first and second terminus and at least a first and second hydrophobic moiety separately attached to, or proximal to, said first and second terminus of said hydrophilic component.

54. (Withdrawn) A liposome or lipid complex comprising amphiphilic molecules that comprise a hydrophilic component positioned over at least a portion of the outer surface of said liposome or lipid complex; wherein said hydrophilic component has at least a first and second terminus and at least a first and second hydrophobic moiety separately attached to, or proximal to, said first and second terminus, wherein said first and second hydrophobic moieties extend into the hydrophobic bilayer of said liposome or lipid complex.

55. (Withdrawn) The liposome or lipid complex of claim 54, wherein said amphiphilic molecules comprise a plurality of hydrophobic moieties that extend into the hydrophobic bilayer of said liposome or lipid complex and wherein said hydrophilic component is positioned over a substantial portion of the outer surface of said liposome or lipid complex.

56. (Original) The method of claim 57, wherein said amphiphilic molecules are prehydrated amphiphilic molecules.

57. (Currently Amended) A method of making a liposome or lipid complex comprising admixing, ~~in an excess of an aqueous solution or phase~~, a population of lipid components with a population of amphiphilic molecules; wherein said amphiphilic molecules comprise a hydrophilic component having at least a first and second terminus and at least a first and second hydrophobic moiety separately attached to, or proximal to, said first and second terminus; and optionally a selected chemical or biological agent or cell; and wherein said admixing is effective to form said liposome or lipid complex, to encapsulate or trap the said selected agent if provided.

58. (Currently Amended) The method of claim 57 further comprising:
- (a) providing a liposome, lipid complex or biological cell; and
  - (b) contacting said liposome, lipid complex or biological cell with an amphiphilic material that comprises a hydrophilic component having at least a first and second terminus and at least a first and second hydrophobic moiety separately attached to, or proximal to, said first and second terminus; wherein said first and second hydrophobic moieties extend into the hydrophobic bilayer of said liposome, lipid complex or cell and wherein said hydrophilic component is positioned over at least a portion of the surface of said liposome, lipid complex or cell;
- thereby forming an amphiphilic material-coated liposome, lipid complex or biological cell.
59. (Original) The method of claim 58, wherein said biological cell is a red blood cell.
60. (Original) The method of claim 59, wherein said biological cell is a human red blood cell.
61. (Original) The method of claim 57, further comprising admixing said liposome or lipid complex with a selected agent, wherein said admixing is effective to cause encapsulation or entrapment of said selected agent in said liposome or lipid complex.
62. (Withdrawn) A kit comprising, in a suitable container, amphiphilic molecules comprising a hydrophilic component having at least a first and second terminus and at least a first and second hydrophobic moiety separately attached to, or proximal to, said first and second terminus; or a liposomal formulation comprising said amphiphilic molecule.
63. (Currently Amended) The method of claim 61, wherein said selected agent is a blood cell, blood product or substitute thereof.

**Claims 64 and 65. (Cancelled)**

66. (Original) The method of claim 61, wherein said selected agent is an immunological component.
67. (Original) The method of claim 61, wherein said selected agent is a nutrient or a nutritional supplement.

68. (Original) The method of claim 63, wherein said selected agent is an oxygen carrier, haemoglobin or a coagulant.
69. (Original) The method of claim 66, wherein said selected agent is an antigen, an antibody, a cytokine or an anti-inflammatory agent.
70. (Original) The method of claim 61, wherein said selected agent is a chemotherapeutic agent or cytotoxin.
71. (Original) The method of claim 61, wherein said selected agent is a protein, peptide, enzyme, hormone, growth factor or neurotransmitter.
72. (Original) The method of claim 61, wherein said selected agent is an antibiotic, an anti-viral or a fungicide.
73. (Original) The method of claim 61, wherein said selected agent is an anaesthetic or a surfactant.
74. (Original) The method of claim 61, wherein said selected agent is nucleic acid molecules, a nucleic acid construct or vector, an antisense nucleic acid or a ribozyme.
75. (Original) The method of claim 61, wherein said selected agent is an agent from Table 3A, Table 3B or Table 4.
76. (Original) The method of claim 61, wherein said selected agent is a pheromone or an agricultural agent.
77. (Original) The method of claim 57, wherein said hydrophilic component of said amphiphilic molecules is a substantially linear, a branched, a pendant or a star hydrophilic component.
78. (Original) The method of claim 57, wherein said hydrophilic component of said amphiphilic molecules is a hydrophilic component from Table 1.
79. (Original) The method of claim 57, wherein at least one of said hydrophobic moieties of said amphiphilic molecules is a hydrophobic moiety from Table 2.

80. (Original) The method of claim 79, wherein at least one of said hydrophobic moieties of said amphiphilic molecules is a deoxy-amino, deoxy-N-methylamino, deoxy-N,N dimethylamino, deoxy-N,N-dimethyl-N-alkylammonium or deoxy-N,N,N trialkylammonium analogue of a glyceride, wherein said glyceride is a glycerol fattyacid ester/ether, a monoglyceride (mono-fattyacylglycerol), monoalkylglycerol, diglyceride (difattyacylglycerol) or monoalkyl-monofattyacylglycerol.

81. (Original) The method of claim 57, wherein said amphiphilic molecules are bipodal amphiphilic molecules comprising a substantially linear hydrophilic component that has a first and second terminus, and wherein a first and second hydrophobic moiety are separately attached at, or substantially at, said first and second terminus.

82. (Original) The method of claim 57, wherein said amphiphilic molecules are oligopodal or polypodal amphiphilic molecules comprising a branched or star hydrophilic component that has a plurality of termini and a plurality of hydrophobic moieties separately attached to each terminus or proximal thereto.

83. (Original) The method of claim 82, wherein said amphiphilic molecules comprise a plurality of hydrophobic moieties that extend into the hydrophobic bilayer of said liposome or lipid complex and wherein said hydrophilic component is positioned over a substantial portion of the outer surface of said liposome or lipid complex.

84. (Original) The method of claim 57, wherein said liposome or lipid complex comprises between 1% and 99% of said amphiphilic molecules.

85. (Original) The method of claim 57, wherein said liposome or lipid complex comprises about 100% of said amphiphilic molecules.

86. (Original) The method of claim 57, wherein said amphiphilic molecules are non-ionic species.

87. (Original) The method of claim 57, wherein said amphiphilic molecules are charge neutral zwitterionic species.

88. (Original) The method of claim 57, wherein said amphiphilic molecules are (poly)anionic species.

89. (Original) The method of claim 57, wherein said amphiphilic molecules are (poly)cationic species.
90. (Original) The method of claim 57, wherein said amphiphilic molecules comprise branching points or functional groups.
91. (Original) The method of claim 90, wherein said branching points or functional groups are provided by glycerol, pentaerythritol, polyols, hydroxy, amino acids or peptides.
92. (Original) The method of claim 90, wherein said branching points or functional groups are attached to lipid residues.
93. (Original) The method of claim 92, wherein said branching points or functional groups are attached to said lipid residues via linkers or spacer residues.
94. (Original) The method of claim 90, wherein said branching points or functional groups are attached to antigens, antibodies or pendant ligands.
95. (Original) The method of claim 94, wherein said branching points or functional groups are attached to fluorescent, spin, biotin or thio-gold labels or to chelators.
96. (Original) The method of claim 94, wherein said branching points or functional groups are attached to antigens, antibodies or pendant ligands via linkers or spacer residues.
97. (Currently Amended) A method of claim 57 ~~encapsulating or entrapping a selected agent in a liposome or lipid complex~~, further comprising:
- (a) providing a population of liposomes or lipid complexes that comprise amphiphilic molecules that comprise a hydrophilic component positioned over at least a portion of the outer surface of the liposome or lipid complex; wherein said hydrophilic component has at least a first and second terminus and at least a first and second hydrophobic moiety separately attached to, or proximal to, said first and second terminus, wherein said first and second hydrophobic moieties extend into the hydrophobic bilayer of the liposome or lipid complex; and
  - (b) admixing said selected agent with said population of liposomes or lipid complexes, wherein said admixing is effective to cause encapsulation or entrapment of said selected agent in said liposome or lipid complex.

98. (New) A liquid-crystalline multimolecular aggregate comprising a plurality of amphiphilic molecules dispersed in an aqueous solution, said amphiphilic molecules comprising a hydrophilic component having at least a first and second terminus and at least a first and second hydrophobic moiety separately attached to, or proximal to, said first and second terminus of said hydrophilic component, prepared by the method of claim 57.

99. (New) A liposome or lipid complex comprising amphiphilic molecules that comprise a hydrophilic component positioned over at least a portion of the outer surface of said liposome or lipid complex; wherein said hydrophilic component has at least a first and second terminus and at least a first and second hydrophobic moiety separately attached to, or proximal to, said first and second terminus, wherein said first and second hydrophobic moieties extend into the hydrophobic bilayer of said liposome or lipid complex, prepared by the method of claim 57.

100. (New) A kit comprising, in a suitable container, amphiphilic molecules comprising a hydrophilic component having at least a first and second terminus and at least a first and second hydrophobic moiety separately attached to, or proximal to, said first and second terminus; or a liposomal formulation comprising said amphiphilic molecule prepared by the method of claim 57.